

Flood Control Project Maintenance
2009 Structure Summary Report
Overall Unit and Item Ratings

Lake County Watershed Protection District

Clover Creek Diversion Structure

Overall Unit Rating	Rated Item	Item Rating
M	Vegetation & Obstructions	A
	Shoaling / Sedimentation	M
	Erosion / Bank Caving	A
	Encroachments	A
	Culverts: Inlets / Outlets	M
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	A
	Sluice/Slide Gates	A
	Manual Gate Operators	A
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Closure Structures	A
	Other Metallic Items	M
	Monolith Joints	A
	Safety	M

Highland Canal Diversion Weir And Drainage Structure

Overall Unit Rating	Rated Item	Item Rating
A	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	A
	Flap Gates	A
	Manual Gate Operators	A
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Closure Structures	A
	Other Metallic Items	A
	Monolith Joints	A
	Safety	M

Flood Control Project Maintenance**Unit Cover Sheet****2009 Structure Inspection Results****Lake County Watershed Protection District**

Structure
Clover Creek Diversion Structure

Structure Rating	M
Date of Inspection	8/11/2009
DWR Inspector	Clay Thomas
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lake County Watershed Protection District

Structure						Structure Length	Inspection Start/End	Inspector	
Clover Creek Diversion Structure								Clay Thomas	

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
1	0.00	0.00	Structures	Photo Documentation				39.177050 ° -122.898750 °		° Y °	1
2	0.00	0.00	Structures	Vegetation & Obstructions		A		39.177050 ° -122.898750 °		° Y °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		M	Inspector Comments: Shoaling / Sedimentation was being removed at the time of this inspection.	39.177050 ° -122.898750 °		° °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A			° °	° °	4
5	0.00	0.00	Structures	Revetments		N			° °	° °	5
6	0.00	0.00	Structures	Encroachments		A			° °	° °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		M			° °	° Y °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		A			° °	° °	8
9	0.00	0.00	Structures	Metal Pipes		A			° °	° °	9
10	0.00	0.00	Structures	Trash Racks		N			° °	° °	10
11	0.00	0.00	Structures	Flap Gates		N			° °	° °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		A			° °	° Y °	12
13	0.00	0.00	Structures	Electric Gate Operators		N			° °	° °	13
14	0.00	0.00	Structures	Manual Gate Operators		A			° °	° Y °	14
15	0.00	0.00	Structures	Concrete Surfaces		A			° °	° Y °	15
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A			° °	° °	16
17	0.00	0.00	Structures	Concrete Foundations		A			° °	° °	17

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure			Clay Thomas

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
18	0.00	0.00	Structures	Security Fencing		N		° °	° °		18
19	0.00	0.00	Structures	Closure Structures		A		° °	° °		19
20	0.00	0.00	Structures	Trash Rakes		N		° °	° °		20
21	0.00	0.00	Structures	Other Metallic Items		M		° °	° °		21
22	0.00	0.00	Structures	Monolith Joints		A		° °	° °		22
23	0.00	0.00	Structures	Safety		M		° °	° °		23

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure			Clay Thomas

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation
The view of the diversion structure gates at the intake.	
cathom_20090921_19.jpg	



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation
Walkway and control gate mechanisms.	
cathom_20090921_20.jpg	



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation
view of the concrete weir downstream of the diversion structure in the bypass channel, sediment being removed.	
cathom_20090921_21.jpg	

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure			Clay Thomas

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation
View of the concrete weir downstream of the diversion structure.	
cathom_20090921_22.jpg	



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation
view of the structure outlet sediment buildup has reduced flow.	
cathom_20090921_23.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Vegetation & Obstructions
Vegetation in the channel near the intake structure.	
cathom_20090921_24.jpg	

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure			Clay Thomas

Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Vegetation & Obstructions
Vegetation in the outlet channel.	
cathom_20090921_25.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Culverts: Inlets / Outlets
View of the outlet pipes with sediment buildup.	
cathom_20090921_26.jpg	



Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Sluice/Slide Gates
The inlet gates.	
cathom_20090921_27.jpg	

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure			Clay Thomas

Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Sluice/Slide Gates

Walkway and control gates.

cathom_20090921_28.jpg



Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Sluice/Slide Gates

Control gate with chain locking in place.

cathom_20090921_29.jpg



Levee Mile Report Line	14
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Manual Gate Operators

Walkway and control gates.

cathom_20090921_30.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure			Clay Thomas

Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Surfaces

Downstream outlet.

cathom_20090921_31.jpg



Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Surfaces

The concrete weir downstream from the diversion structure.

cathom_20090921_32.jpg



Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Surfaces

The weir in the bypass channel.

cathom_20090921_33.jpg



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Flood Control Project Maintenance**Unit Cover Sheet****2009 Structure Inspection Results****Lake County Watershed Protection District**

Structure
Highland Canal Diversion Weir And Drainage Structure

Structure Rating	A
Date of Inspection	7/7/2009
DWR Inspector	Clay Thomas
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lake County Watershed Protection District

Structure						Structure Length	Inspection Start/End	Inspector	
Highland Canal Diversion Weir And Drainage Structure								Clay Thomas	

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
1	0.00	0.00	Structures	Photo Documentation				39.126317 ° -121.882733 °		° Y °	1
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: There's moderate vegetation around the structures or in the channel.	39.126317 ° -121.882733 °		° Y °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A		39.126317 ° -121.882730 °		° °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A		39.126317 ° -121.882730 °		° °	4
5	0.00	0.00	Structures	Revetments		A		39.126317 ° -121.882730 °		° °	5
6	0.00	0.00	Structures	Encroachments		A		39.126317 ° -121.882730 °		° °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		A				° °	Y 7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		A				° °	8
9	0.00	0.00	Structures	Metal Pipes		A				° °	9
10	0.00	0.00	Structures	Trash Racks		N				° °	10
11	0.00	0.00	Structures	Flap Gates		A				° °	Y 11
12	0.00	0.00	Structures	Sluice/Slide Gates		N				° °	12
13	0.00	0.00	Structures	Electric Gate Operators		N				° °	13
14	0.00	0.00	Structures	Manual Gate Operators		A				° °	14
15	0.00	0.00	Structures	Concrete Surfaces		A				° °	Y 15
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A				° °	16
17	0.00	0.00	Structures	Concrete Foundations		A				° °	17

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Highland Canal Diversion Weir And Drainage Structure			Clay Thomas

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
18	0.00	0.00	Structures	Security Fencing		N		° °	° °		18
19	0.00	0.00	Structures	Closure Structures		A		° °	° °		19
20	0.00	0.00	Structures	Trash Rakes		N		° °	° °		20
21	0.00	0.00	Structures	Other Metallic Items		A		° °	° °		21
22	0.00	0.00	Structures	Monolith Joints		A		° °	° °		22
23	0.00	0.00	Structures	Safety		M		° °	° °		23

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Highland Canal Diversion Weir And Drainage Structure			Clay Thomas

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

The view of the outlet pipes and channel.

cathom_20090915_8.jpg



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

The concrete weir and the diversion pipe intake.

cathom_20090915_9.jpg



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

The down stream side of the weir and diversion pipe intake.

cathom_20090915_10.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Highland Canal Diversion Weir And Drainage Structure			Clay Thomas

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation
The flap gates on the outlet pipes.	
cathom_20090915_11.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Vegetation & Obstructions
Moderate vegetation near outlet pipes.	
cathom_20090915_12.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Vegetation & Obstructions
Vegetation near diversion pipe intake.	
cathom_20090915_13.jpg	

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Highland Canal Diversion Weir And Drainage Structure			Clay Thomas

Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Culverts: Inlets / Outlets
Vegetation at the intake.	
cathom_20090921_14.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Culverts: Inlets / Outlets
Vegetation at the outlet.	
cathom_20090921_15.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Culverts: Inlets / Outlets
The concrete weir and diversion pipe intake.	
cathom_20090921_16.jpg	

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Highland Canal Diversion Weir And Drainage Structure			Clay Thomas

Levee Mile Report Line	11
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Flap Gates

Outlet flap gates.

cathom_20090921_17.jpg



Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Surfaces

The weir.

cathom_20090921_18.jpg



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